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BOOKS AND PERIODICALS.

Elements of the Infinitesimal Calculus. By G. H. Chandler, M. A., Professor of Applied Mathematics, McGill University, Montreal. Third Edition, rewritten. 12mo Cloth, vi+319 pages, 146 figures. Price, $2.00. New York: John Wiley & Sons.

This work is intended as an introductory manual of the Calculus for beginners generally and students of engineering particularly. The author recognizes the Theory of Limits as the logical foundation of the Calculus, but in his book he aims to accustom the reader to the principles and processes which are used in practical operations. The arrangement of topics is somewhat out of the usual order. Thus the differentials of Hyperbolic Functions are discussed immediately after the differentials of the ordinary functions. Also integration is taken up early, page 93. Some subjects not usually treated in elementary texts find a brief treatment in this work. Thus the Intrinsic Equations of Curves, Fourier Series, and Differential Equations are treated, Fourier Series occupying pages 228-238 and Differential Equations 259-286. Elliptic Integrals are also briefly discussed. Many of the problems are related to practical application and there are many illustrating the various subjects under discussion. At the end of the book there are the following tables: (1) Powers, Neaperian Logarithms, etc. (2) Circular Functions; Hyperbolic Functions; Lambda Functions: Gamma Functions; First Ellliptic Integrals; and Second Elliptic Integrals. B. F. F.

Higher Mathematics for Students of Chemistry and Physics, with Special Reference to Practical Work. By J. W. Mellor, D. Sc. Second Edition, enlarged. 8vo Cloth, xxi+631 pages. Price, $4.50 net. New York: Longmans, Green, & Co.

The author has rendered a good service to the students of chemistry and physics by preparing for their use this excellent work. In the establishment of principles and rules, the author has kept constantly in mind the class of students for which he was preparing his book, and thereby he has avoided the extreme logical rigor and and subtle formalities on the one hand, while at the same time no loose and illogicel reasoning is permitted, on the other.

The student will in the study of this work get a good grounding in the Differential and Integral Calculus, Infinite Series, Differential Equations, Theory of Error, Calculus of Variations, etc. While some of the problems belong to the domain of pure mathematics and are to be found in many text-books, yet the greater number are based upon measurements, etc, recorded in current scientific journals.

The style of type, printing, and binding are excellent, and the work is one that will commend itself favorably to all classes of mathematical students. B. F. F.

The Electron Theory. A Popular Introduction to the New Theory of Electricity and Magnetism. By E. E. Fournier D'Albe, B. Sc. (London), A. R. C. Sc., Compiler of "Contemporary Electrical Science" with a Preface, by G. Johnstone Stoney, M. A., Sc. D., F. R. S. 8vo Cloth. xxiii+311 pages. Price $1.50 net. New York: Longmans, Green, & Co.

In this work is set forth in popular language the latest theory regarding the nature of matter. All students of science unacquainted with the most recent advances in Electricity and Magnetism, will want this book. B. F. F.

Wellcome's Photographic Exposure Record and Diary. Price, 50 cents. London and New York: Burroughs, Wellcome, & Co.

This little book gives a clear explanation of the underlying principles of exposure and puts them into practice by means of a very simple mechanical calculator which indicates the correct exposure. The book is a compact compendium of photographic information. In addition it provides a pocket note-book, a diary and ruled pages for recording exposures. This little book will be of great service to the amateur photographer. B. F. F.

New Elementary Arithmetic. By George Wentworth, Author of Text-Books in Mathematics. 8vo Cloth, 232 pages. Boston and Chicago: Ginn & Co.

This book is designed to be taken up not later than the last half of the second school year. The work, in addition to well selected material for the pupils, contains also some good suggestions for the teacher. B. F. F.

Theoretical Mechanics. By J. H. Jeans, Fellow of Trinity College, Cambridge (England), and Professor of Applied Mathematics in Princeton University. 8vo Cloth, 364 pages. Illustrated. List price, $2.50; mailing price, $2.65. Boston and Chicago: Ginn & Co.

This book is intended to supply a one year's course for students beginning the study of mechanics. It treats of the general principles of dynamics, the laws of motion, statics, and dynamics of a particle of a rigid body. The treatment of the subject is lucid and each principle is illustrated by a series of practical examples. Numerous well selected exercises and problems are inserted for solution by the student. B. F. F.

Plane Geometry. By Edward Rutledge Robbins, A. B., Senior Mathematical Master, The William Penn Charter School. 8vo, Cloth sides, Leather back, 254 pages. New York, Cincinnati, and Chicago: American Book Co.

Among the reasons given by the author in preparing this work are: To present a book that has been written for the pupil; to stimulate his mental activity; to present a text that will be clear, consistent, teachable, and sound; and to explain rather than formally demonstrate the simple fundamental truths. The diagrams are good, the typographical and mechanical execution of the book is splendid, and the book is well written. A large number of original exercises is inserted. B. F. F.

Physics. By Charles Riborg Mann, the University of Chicago, and George Ransom Twiss, the Central High School, Cleveland. 8vo Cloth, 458 pages. Chicago: Scott, Forsman, & Co.

This book is so written and the subject matter presented in such a way that the attention of the pupil is held to the subject under discussion. The illustrations are new, being, for the most part, pictures of real objects. The most recent discoveries in Physics are here clearly described and the underlying principles fully explained. This work will go far towards stimulating a greater interest in the study and teaching of Physics. B. F. F.